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ABSTRACT

A body weigh scale that is formed of a fiber-filled, polyester thermosetting polymer material that is sufficiently rigid so that it may house strain-gauge load cells therein, and yet not significantly deflect under load. The fiber-filled, polyester thermosetting polymer material provides an attractive surface after molding. The fiber-filled, polyester thermosetting polymer material has extremely low shrinkage rates so that the outer pattern and shape of the scale is not affected by the forming of very thin cross sections adjacent to thick cross-sections. In addition, the fiber-filled, polyester thermosetting polymer material is sufficiently rigid to permit a body weigh scale to be constructed having a low profile with integral load-receiving platform and strain-gauge load cell receptacles. The rigidity of the fiber-filled, polyester thermosetting polymer material provides sufficient structural support for operation of the strain-gauge load cells without deflection of material at the receptacles.